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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

+ attachments

Total Number of Pages in This Submission

10

Application Number

10/627,669

Filing Date

07/28/2003

First Named Inventor

Ted Humphrey

Art Unit

2817

Examiner Name

Attorney Docket Number

ENCLOSURES

(Check all that apply)



Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Response to Missing Parts/
Incomplete ApplicationResponse to Missing Parts
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition



Petition to Convert to a

Provisional Application



Power of Attorney, Revocation

Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____

After Allowance communication
to Technology Center (TC)Appeal Communication to Board
of Appeals and InterferencesAppeal Communication to TC
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please
Identify below):*return Postcard*

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENTFirm
or
Individual name*Ted Humphrey*

Signature

Ted Humphrey

Date

*6/10/2004***CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

Ted Humphrey

Signature

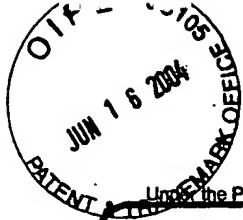
Ted Humphrey

Date

6/10/2004

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JFW
\$

PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

Complete if Known

Application Number 10/627,669
Filing Date 07/28/2003
First Named Inventor Ted Humphrey
Examiner Name
Art Unit 2817
Attorney Docket No.

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit Account Number
Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1) (\$)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

*or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	180
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 180

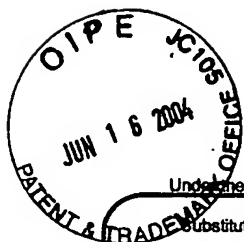
SUBMITTED BY

Name (Print/Type) Ted Humphrey
Signature Ted Humphrey
Registration No. (Attorney/Agent)
Telephone 727 446-0206
Date 6/10/2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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PTO/SB/08A (04-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/627,669
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 4,357,578	11/2/1982	Yokoyama	
		US-			
	AB	US- 4,532,479	7/30/1985	Blauschild	
		US-			
	AC	US- 3,497,824	2/24/1970	Goordman	
		US-			
	AD	US- 6,486,737	11/26/2002	Carter	
		US-			
	AE	US- 6,518,842	2/11/2003	Carter, et al.	
		US-			
	AF	US- 4,555,673	11/26/1985	Huijsing, et al.	
		US-			
	AG	US- 5,714,906	2/3/1998	Motamed, et al.	
		US-			
	AH	US- 5,396,194	3/7/1995	Williamson, et al.	P41, 43, Fig 24C
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
SignatureDate
Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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PTO/SB/068 (04-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/627,669
				Filing Date	07/28/2003
				First Named Inventor	Ted Humphrey
				Art Unit	2817
				Examiner Name	
Sheet	1	of	7	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	SIGNETICS, NE/SA5230 Low Voltage Operational Amplifier, 6/11/87, 853-0942 89304, Signetics, Sunnyvale, CA	
	CB	TOM DELURIO, et al., 2V op amp rides ..., Electronic Design, 7/25/85, Pages 151 - 155, Electronic Design,	
	CC	SIGNETICS, SE/NE5212 Transimpedance Amplifier, 5/2/1986, Signetics Linear, Sunnyvale, CA	
	CD	KESTER, High Speed Operational Amplifiers, High Speed Design Techniques, 1996, Pages 1-1 => 1-17, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CE	KESTER, High Speed Op Amp Applications, High Speed Design Techniques, 1996, Pages 2-36 => 2-38, ISBN-0-916550-17-6, Analog Devices, Norwood, MA	
	CF	ANALOG DEVICES, OP279 Rail-toRail High Output Current Operational Amp, Oct 1994, Analog Devices, Norwood, MA	
	CG	KESTER, 1992 Amplifier Applications Guide, 1992, Pages 10-11, ISBN-0-916550-10-9, Analog Devices, Norwood, MA	
	CH	ANALOG DEVICES, AD811 High Performance Video Op Amp, Page 2, 11/91, Analog Devices, Norwood, MA	
	CI	ANALOG DEVICES, AD8001 800 Mhz, 50 mW Current Feedback Amplifier, Page 2, 8/95, Analog Devices, Norwood, MA	
	CJ	ANALOG DEVICES, AD8011 300 Mhz, 1 mA Current Feedback Amplifier, Page 2 & 9, 2/95, Analog Devices, Norwood, MA	

Examiner Signature		Date Considered	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet 2 of 7	Application Number	10/627,670
	Filing Date	07/28/2003
	First Named Inventor	Ted Humphrey
	Art Unit	2817
	Examiner Name	
	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DA	ANALOG DEVICES, BUF04 Closed-Loop High Speed Buffer, Page 9, 10/93, Analog Devices, Norwood, MA	
	DB	INTERSIL, HA-2539 600 MHz, Very High Slew Rate Op Amp, May 2003, FN2896.5, Intersil, Palm Bay, FL	
	DC	INTERSIL, HA-2540 400 MHz, Fast Settling Op Amp, July 2003, FN2897.5, Intersil, Palm Bay, FL	
	DD	HARRIS/INTERSIL, HFA-0005 High Slew Rate Op Amp, March 1993/Sept 1998, FN2918.1 & FN2918.2, Intersil, Palm Bay, FL	
	DE	HARRIS/INTERSIL, HA-5004 100 MHz Current Feedback Amplifier, March 1993, FN2823.1, Harris, Melbourne, FL	
	DF	HARRIS/INTERSIL, HFA1130 Ultra High-Speed CFA, March 1993/July 2002, FN3369 & FN3369.3, Intersil, Palm Bay, FL	
	DG	INTERSIL, HA-5190/5195 150 MHz, Fast Settling Op Amp, Aug 2002, FN2914.4, Intersil, Palm Bay, FL	
	DH	INTERSIL, HA-5102/5104 Dual & Quad 8 Mhz & 60 Mhz Low Noise Op Amp, June 2003, FN2925.8, Intersil, Palm Bay, FL	
	DI	HARRIS/INTERSIL, HA-5020 100 MHz Current Feedback Amplifier, 1992, FN845.2, Harris, Melbourne, FL	

Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/627,670
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
Examiner Name	
Attorney Docket Number	

Sheet

3

of

7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	EA	élantec, EL2038C 1GHz Op Amp, Nov 1993, élantec Semiconductor, Milpitas, CA Obsolete - out of print	
	EB	élantec, EL2041C Wideband, Fast Settling, Unity Gain Stable, Op Amp, Nov 1993, élantec Semiconductor, Milpitas, CA	
	EC	élantec, 1997 Data Book, 1997, élantec Semiconductor, Milpitas, CA AN #3, DC Restored 100 Mhz Current Feedback Video Amp, pages 8-7 => 8-17	
		AN #23, Practical CFamp Design Considerations, pages 8-122 => 8-132, By Barry Harvey	
		EL202C, 50 Mhz CFA, pages 2-58 => 2-71 EL2030C, 120 Mhz CFA, pages 2-75 => 2-88	
		EL2070C, 200 Mhz CFA, pages 2-137 => 2-150 EL400C, 200 Mhz CFA, pages 2-151 => 2-161	
		EL2070C, 150 Mhz CFA, pages 2-163 => 2-176 EL2099C, Video Distribution Amplifier, pages 2-219 => 2-232	
		EL2120C, 100Mhz CFA, pages 2-233 => 2-244 EL2130C, 85 Mhz CFA, pages 2-245 => 2-252	
		EL2160C, 130 Mhz CFA, pages 2-309 => 2-324 EL2166C, 110 Mhz CFA, pages 2-368 => 2-384	
		EL2170C, 70 Mhz/1mA Current Mode Feedback Amp, pages 2-385 => 2-400 EL2180C, 250 Mhz/3mA Current Mode Feedback Amp, pages 2-431 => 2-446	

Examiner Signature		Date Considered	
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Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

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	FA	REA SCHMID, OA-25 Stability Analysis of CFAs, May 1995, AN012787, National Semiconductor (originally Comlinear), Santa Clara, CA	
	FB	REA SCHMID, OA-18 Simulation SPICE Models for Comlinear Op Amps, July 1995, National Semiconductor, Santa Clara, CA	
	FC	NATIONAL SEMI, CL109 Low-Power, Wideband, Closed-Loop Buffer, June 1994, National Semiconductor, Santa Clara, CA	
	FD	NATIONAL SEMI, CLC111 Ultra-High Slew Rate, Closed-Loop Buffer. June 1999, National Semiconductor, Santa Clara, CA	
	FE	NATIONAL SEMI, LH4118 Low Gain Wide Band RF Amplifier, Oct 1988, National Semiconductor, Santa Clara, CA	
	FF	TIMOTHY T. REGAN, AN-278 Designing with a New Super Fast Dual Norton Amplifier, Sept 1981, National Semiconductor, Santa Clara, CA	
	FG	NATIONAL, AN-72 The LM3900: A New Current-Differencing . . . Amplifiers, Sept 1972, Pages 1-10, National Semiconductor, Santa Clara, CA	
	FH	NATIONAL. Comlinear High-Speed Analog and Mixed-Signal Databook, Items & pages #'s to follow, 1997, National Semiconductor, Santa Clara, CA	
		LM6171 High Speed . . . Voltage Feedback Amplifier, pages 4-243 => 4-268	
		LM6181 100 mA, 100 Mhz Current Feedback Amplifier, pages 4-269 => 4-285	
		LM7171 Very High Speed . . . Voltage Feedback Amp, pages 4-344 => 4-357	

Examiner
SignatureDate
Considered

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of

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	FH cont	CLC400 Fast Settling . . . Op Amp, pages 4-20 => 4-23 CLC401 Fast Settling . . . Op Amp, pages 4-24 => 4-27	
		CLC410 Fast Settling . . . Op Amp, pages 4-60 => 4-65 Other datasheets corresponding to SPICE Models from OA-18 above item # FB: as listed on page 2 of reference FB (OA-18) above.	
	GA	NATIONAL SEMI, LM6142 . . . Op Amps, National Op Amp Databook, 1995, pages 1-504 => 1-514, RRD/RRD150M95, National Semi, Santa Clara, CA	
	GB	LINEAR TECHNOLOGY, LT1206 250mA/60Mhz CFA, 6/24/93, LT/GP 0993 10K Rev 0, Linear Technology, Milpitas, CA	
	GC	LINEAR TECHNOLOGY, LT1217 Low Power 10Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GD	LINEAR TECHNOLOGY, LT1223 100Mhz CFA, BA/GP 0791 10K Rev 0, Linear Technology, Milpitas, CA	
	GE	LINEAR TECHNOLOGY, LT1227 140Mhz Video CFA, LT/GP 0892 10K Rev 0, Linear Technology, Milpitas, CA	
	GF	LINEAR TECHNOLOGY, LT1228 100Mhz CFA w/ DC Gain Control, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	
	GG	LINEAR TECHNOLOGY, LT1230 Dual & Quad 100Mhz CFA, BA/GP 0192 10K Rev 0, Linear Technology, Milpitas, CA	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/627,670
Filing Date	07/28/2003
First Named Inventor	Ted Humphrey
Art Unit	2817
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	HA	LINEAR TECHNOLOGY, LT1252 Low Cost Video Amplifier, 10/1992 LT/GP 0293 10K Rev 0, Linear Technology, Milpitas, CA	
	HB	LINEAR TECHNOLOGY, LT1351 250uA, 3Mhz, 200 . . . Op Amp, Linear Technology, Milpitas, CA	
	HC	LINEAR TECHNOLOGY, LT1360 50 Mhz, 800V/us Op Amp, 1994 LT/GP 0494 10K, Linear Technology, Milpitas, CA	
	HD	LINEAR TECHNOLOGY, LT1813 Dual 3mA . . . Op Amp, 1999 1813f LT/TP 0999 40K, Linear Technology, Milpitas, CA	
	HE	ANDREAS HAHN, Application of Rail-to-Rail Op Amps, Dec 1999, SLOA039A, Texas Instruments, Dallas, TX	
	HF	JAMES KARKI, Voltage Feedback vs Current Feedback Op Amps, Nov 1998, SLVA051, Texas Instruments, Dallas, TX	
	HG	TI, THS3001 140-Mhz High-Speed CFA, July 1998, SLOS217, Texas Instruments, Dallas, TX	
	HH	TI, THS4150/4151 High-Speed Differential I/O Amps, May 2000Rev Jan 2004, SLOS3210, Texas Instruments, Dallas, TX	
	HI	BURR BROWN (TI), OPA603 High Speed, Current-Feedback Op Amp, May 1991, PDS1026B, Burr Brown (now Texas Instruments), Tucson, AZ	
	HJ	BURR BROWN (TI), OPA622 Wide-Bandwidth Op Amp, Oct 1992, PDS-1131A, Burr Brown (now Texas Instruments), Tucson, AZ	

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	IA	BURR BROWN (TI), OPA623 Wide Bandwidth, Current-Feedback Op Amp, Dec 1992, PDS-1132A, Burr Brown (now Texas Instruments), Tucson, AZ	
	IB	KLAUS LEHMANN, AB-180 Ultra High-Speed ICs, Burr-Brown IC Application Handbook, 1994, pages 244-248, LI-459, Burr Brown (now TI), Tucson, AZ	
	IC	BURR BROWN (TI), OPA660 Wide Bandwidth, Operational Transconductance Amp & Buffer, Sept 1991, PDS-1072B, Burr Brown (now TI), Tucson, AZ	

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